

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: March 18, 2002, 21:17:43 ; Search time 177.86 Seconds
(without alignments)
3323.443 Million cell updates/sec

Title: US-09-867-034-5

Perfect score: 2610

Sequence: 1 gatgtggcagcgcctcagag.....ccgagatggtcgcaggaggt 2610

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 351203 seqs, 11323899 residues

Total number of hits satisfying chosen parameters: 702406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_NA.*
1: /cgn2_6/ptodata/2/ina/5A.COMB.seq.*
2: /cgn2_6/ptodata/2/ina/5B.COMB.seq.*
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq.*
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq.*
5: /cgn2_6/ptodata/2/ina/PTUS.COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	length	ID	Description
1	76.4	2.9	3502	2	US-08-724-394A-16
2	58.2	2.2	2280	1	US-08-415-818-5
3	58.2	2.2	2280	2	US-08-894-236-5
4	58.2	2.2	2280	5	PCT-US96-01444-5
5	57	2.2	7218	1	US-08-233-463-14
6	56.8	2.2	2882	2	US-08-724-394A-12
7	56	2.1	4122	4	US-09-321-831-1
8	55.2	2.1	7208	3	US-09-166-186-107
9	55.2	2.1	7208	4	US-09-313-932-107
10	54.8	2.1	372	4	US-09-018-584A-13
11	53.8	2.1	17056	4	US-09-245-041-3
12	53.2	2.0	8779	2	US-08-750-703-4
13	53	2.0	2830	1	US-07-882-292-1
14	53	2.0	2830	2	US-08-331-644-1
15	53	2.0	2830	5	PCT-US93-04102-1
16	53	2.0	2917	4	US-08-437-607A-3
17	52.6	2.0	992	4	US-08-789-329C-9
18	52.6	2.0	1079	4	US-08-789-329C-6
19	52.6	2.0	1088	4	US-08-789-329C-2
20	52.6	2.0	6529	4	US-08-789-329C-1
21	52.4	2.0	349	1	US-08-253-155A-14
22	52.2	2.0	305	1	US-08-253-155A-1
23	52.2	2.0	329	1	US-08-253-155A-23
24	52	2.0	3892	2	US-08-555-723B-3
25	52	2.0	3892	3	US-09-123-465-3
26	51.6	2.0	13011	2	US-08-791-849A-14
27	51.4	2.0	1559	4	US-09-019-095A-7

28	51	2.0	2397	1	US-07-891-942G-11	Sequence 11, Appl
29	51	2.0	7218	1	US-08-232-463-14	Sequence 14, Appl
30	50.8	1.9	1642	2	US-08-665-037-1	Sequence 1, Appl
31	50.8	1.9	1642	2	US-08-666-067-1	Sequence 1, Appl
32	50.8	1.9	14507	3	US-08-732-870-1	Sequence 1, Appl
33	50.8	1.9	29604	3	US-08-785-150-1	Sequence 1, Appl
34	50.8	1.9	14507	3	US-08-785-150-1	Sequence 1, Appl
35	50.6	1.9	2191	1	US-08-417-330A-11	Sequence 207, App
36	50.2	1.9	2419	1	US-08-428-415-1	Sequence 11, Appl
37	50.2	1.9	2419	1	US-08-379-685-1	Sequence 1, Appl
38	50.2	1.9	2419	2	US-08-854-029-1	Sequence 1, Appl
39	50.2	1.9	2419	4	US-08-428-762-1	Sequence 1, Appl
40	49.2	1.9	10409	3	US-08-772-440-33	Sequence 33, Appl
41	49	1.9	12141	4	US-09-488-671-10	Sequence 10, Appl
42	48.6	1.9	2071	1	US-08-393-985-15	Sequence 15, Appl
43	48.6	1.9	2263	1	US-08-176-126B-1	Sequence 1, Appl
44	48.6	1.9	2263	2	US-08-669-435-1	Sequence 1, Appl
45	48.6	1.9	2263	5	PCT-US94-14431A-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-724-394A-16
Sequence 16, Application US/08724394A
Patent No. 5872237
GENERAL INFORMATION:
APPLICANT: Feder, John N.
APPLICANT: Krommal, Gregory S.
APPLICANT: Lauer, Peter M.
APPLICANT: Ruddy, David A.
APPLICANT: Thomas, Winston
APPLICANT: Tsuchihashi, Zenta
APPLICANT: Wolff, Roger K.
TITLE OF INVENTION: Megabase Transcript Map: No. 5872237el
TITLE OF INVENTION: Sequences and Antibodies Thereto
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: TOWNSEND and TOWNSEND and CREW LLP
STREET: Two Embarcadero Center, 8th floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/724,394A
FILING DATE: 01-OCT-1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Fitts, Renee A.
REGISTRATION NUMBER: 35,136
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-576-0200
TELEFAX: 415-576-0300
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 3502 base pairs
TYPE: nucleic acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: misc-feature
LOCATION: 1..3502
OTHER INFORMATION: /note= "cDNA 32"
US-08-724-394A-16

Query Match 2.9%; Score 76.4; DB 2; Length 3502;
Best Local Similarity 57.4%; Pred. No. 2.6e-10;
Matches 218; Conservative 0; Mismatches 151; Indels 11; Gaps 4;

QY 1441 gacctggtctctcgaagaagagtcagtgaggtacacccgcgaagaagagcctg 1500
DB 1101 GACCTCTTCTCTGACAGAGACCCGAGACAGTGTAGCGGGGCCCTTACAGAGCAGAGATG 1160
QY 1501 ccagagacagcccccgtgccttcagagccctccgcgcgtgtctggtctccgcgcctctcc 1560
DB 1161 CCTGACAAACCCAGAGAGATTGAGAGTCAAGCTTGTCTGTGAGAGAGAGACCTTCCGCC 1220
QY 1561 tccgcgcgcacccgcgcgcagtgctgacgtgcagctgagcgagcgagcgctgcagcgtg 1620
DB 1221 TCAGGGAACATTACTGAGAGG-----TCGAGGTGGAACAGTGAATGATGCTGAGACGTG 1274
QY 1621 ggggtgagcgagggaggggtgaggaagacagagagatgagactcagcgccgagagcg 1680
DB 1275 GGGGTCTGACAGACAGAGTGTGAGAGAAAGG-GAGGTCTCTGATTCCTCAGAAATGG 1333
QY 1681 cgcctgagcgagtcatactctcaccacagtgctgagcgagcaccctcccgagcacc 1740
DB 1334 CTCTTGAGACCTTGAGAGTGTGGA--AACCAATACCGGCGCTGTCTCTCCCTG--AGA 1389
QY 1741 gacctgctgcgtgagcgagatcccgcgagcgctgagagtcgcctcggactacagagcg 1800
DB 1390 GGATCTCTCCCTTGAGAGAGACTCTTGGCGGGGTGGGCGTCTCTGAGATATGAAAGCTG 1449
QY 1801 ggcaggtgacccctccacaac 1820
DB 1450 GAGATGTCTCTCTTCTACAC 1469

RESULT 2

US-08-415-818-5/c
Sequence 5, Application US/08415818
Patent No. 5621079
GENERAL INFORMATION:
APPLICANT: Cascieri, Margaret A.
APPLICANT: Linemeyer, David L.
APPLICANT: Macneil, Douglas J.
APPLICANT: Shiao, Lin-lin
APPLICANT: Strader, Catherine D.
APPLICANT: Tan, Carina P.
APPLICANT: Weinberg, David H.
TITLE OF INVENTION: NEUROPEPTIDE Y RECEPTOR
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Mary A. Appollina
STREET: P.O. Box 2000, 126 E. Lincoln Ave.
CITY: Rahway
STATE: NJ
COUNTRY: USA
ZIP: 07065
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/415,818
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/383,746
FILING DATE: 03-FEB-1995
ATTORNEY/AGENT INFORMATION:
NAME: Appollina, Mary A.
REGISTRATION NUMBER: 34,087
REFERENCE/DOCKET NUMBER: 19390
TELECOMMUNICATION INFORMATION:

TELEPHONE: 908-594-3462
TELEFAX: 908-594-4720
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 2280 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE: CDS
NAME/KEY: 822..1937
LOCATION:
US-08-415-818-5

Query Match 2.2%; Score 58.2; DB 1; Length 2280;
Best Local Similarity 72.8%; Pred. No. 1.2e-05;
Matches 75; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

QY 299 caggtgctccctgctgctgagcattcttggtctctctctctctctctctctctctctct 358
DB 280 CAGATGCTTACCTTGTCT 221
QY 359 ctctctctctctctctctctctctctctctcagccttgacccgcttccc 401
DB 220 CT 178

RESULT 3

US-08-894-236-5/c
Sequence 5, Application US/08894236
Patent No. 5939263
GENERAL INFORMATION:
APPLICANT: Cascieri, Margaret A.
APPLICANT: Linemeyer, David L.
APPLICANT: Macneil, Douglas J.
APPLICANT: Shiao, Lin-lin
APPLICANT: Strader, Catherine D.
APPLICANT: Tan, Carina P.
APPLICANT: Weinberg, David H.
TITLE OF INVENTION: NEUROPEPTIDE Y RECEPTOR
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Mary A. Appollina
STREET: P.O. Box 2000, 126 E. Lincoln Ave.
CITY: Rahway
STATE: NJ
COUNTRY: USA
ZIP: 07065
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/894,236
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/383,746
FILING DATE: 03-FEB-1995
APPLICATION NUMBER: 08/415,818
FILING DATE: 03-APR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Appollina, Mary A.
REGISTRATION NUMBER: 34,087
REFERENCE/DOCKET NUMBER: 19390Y
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-594-3462
TELEFAX: 908-594-4720

```

; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2280 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 822..1937
; PCT-US96-01444-5

Query Match      2.2%; Score 58.2; DB 2; Length 2280;
Best Local Similarity 72.8%; Pred. No. 1.2e-05;
Matches 75; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

OY 299 cagtgagctccctgtgctgcatcttgctctctctctctctctctctgt 358
    ||| ||||| ||| ||| ||||| ||||| ||||| ||||| ||||| |||||
DB 280 CAGATGCGTTACCTGTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 221
OY 359 ctctctctctctctgtctctcagccttgacgcgcttccc 401
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 220 CTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTC 178

RESULT 4
PCT-US96-01444-5/c
; Sequence 5, Application PC/TUS9601444
; GENERAL INFORMATION:
; APPLICANT: Cascieri, Margaret A.
; APPLICANT: Linemeyer, David L.
; APPLICANT: Macneil, Douglas J.
; APPLICANT: Shiao, Lin-Lin
; APPLICANT: Strader, Catherine D.
; APPLICANT: Tan, Carina P.
; APPLICANT: Weinberg, David H.
; TITLE OF INVENTION: NEUROPEPTIDE Y RECEPTOR
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Mary A. Appollina
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/01444
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/383,746
; FILING DATE: 03-FEB-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/415,818
; FILING DATE: 03-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Appollina, Mary A.
; REGISTRATION NUMBER: 34,087
; REFERENCE/DOCKET NUMBER: 19390Y
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-594-3462
; TELEFAX: 908-594-4720
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2280 base pairs
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; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 822..1937
; PCT-US96-01444-5

Query Match      2.2%; Score 58.2; DB 5; Length 2280;
Best Local Similarity 72.8%; Pred. No. 1.2e-05;
Matches 75; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

OY 299 cagtgagctccctgtgctgcatcttgctctctctctctctctctgt 358
    ||| ||||| ||| ||| ||||| ||||| ||||| ||||| ||||| |||||
DB 280 CAGATGCGTTACCTGTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 221
OY 359 ctctctctctctgtctctcagccttgacgcgcttccc 401
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 220 CTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTC 178

RESULT 5
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEFFELINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: pTZ9pt-Fls
; US-08-232-463-14
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: TYPE: DNA
: ORGANISM: WAP gene promoter fragment from the C57B/6 mouse strain
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: (344)..(344)
: OTHER INFORMATION: "n" is unknown
: NAME/KEY: misc_feature
: LOCATION: (3377)..(544)
: OTHER INFORMATION: "n" is unknown
US-09-321-831-1
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Query Match          2.1%; Score 56; DB 4; Length 4122;
Best Local Similarity 77.3%; Pred. No. 6e-05;
Matches 68; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
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```

OY 296 agccagtggtccctcgtgctgagcattctgtctctctctctctctctc 355
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Db 2545 AGCCAGCAGACTTCCGAGACTCCCTCTCCAGCTCTCTCTCTCTCTCTCTC 2486
```

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OY 356 tctctctctctctctctctctctctcag 383
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Db 2485 TCTCTCTCTCTCTCTCTCTCTCTCTGAG 2458
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```

RESULT 8
US-09-166-186-107
: Sequence 107, Application US/09166186A
: Patent No. 6080580
: GENERAL INFORMATION:
: APPLICANT: Baker, Brenda
: APPLICANT: Bennett, C. Frank
: APPLICANT: Butler, Madeline M.
: APPLICANT: Shanahan, William R.
: TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE MODULATION OF TNF- $\alpha$  EXPRESSION
: FILE REFERENCE: ISPH-0322
: CURRENT APPLICATION NUMBER: US/09/166,186A
: CURRENT FILING DATE: 1998-10-05
: NUMBER OF SEQ ID NOS: 250
: SEQ ID NO 107
: LENGTH: 7208
: TYPE: DNA
: ORGANISM: Mus musculus
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (4527..4712,5225..5279,5457..5504,5799..6217)
: FEATURE:
: NAME/KEY: exon
: LOCATION: (4371)..(4712)
: FEATURE:
: NAME/KEY: intron
: LOCATION: (4713)..(5224)
: FEATURE:
: NAME/KEY: exon
: LOCATION: (5225)..(5279)
: FEATURE:
: NAME/KEY: intron
: LOCATION: (5280)..(5456)
: FEATURE:
: NAME/KEY: exon
: LOCATION: (5457)..(5504)
: FEATURE:
: NAME/KEY: intron
: LOCATION: (5505)..(5798)
: FEATURE:
: NAME/KEY: exon
: LOCATION: (5799)..(>6972)
: PUBLICATION INFORMATION:
: AUTHORS: Semon, D.
: AUTHORS: Kawashima, E.
: AUTHORS: Jongeneel, C.V.
: AUTHORS: Shakhov, A.N.
: AUTHORS: Nedospasov, S.A.
```

```

: TITLE: Nucleotide sequence of the murine TNF locus, including the
: TITLE: TNF- $\alpha$  (tumor necrosis factor) and TNF- $\beta$  (lymphotoxin) genes
: JOURNAL: Nucleic Acids Res.
: VOLUME: 15.
: ISSUE: 21
: PAGES: 9083-9084
: DATE: 1987-11-11
: DATABASE ACCESSION NUMBER: Y00467 Genbank
: DATABASE ENTRY DATE: 1993-05-11
US-09-166-186-107
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Query Match          2.1%; Score 55.2; DB 3; Length 7208;
Best Local Similarity 67.2%; Pred. No. 0.00013;
Matches 78; Conservative 0; Mismatches 38; Indels 0; Gaps 0;
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OY 329 ctctctctctctctctctctctctctctctctctctctctctctctctc 388
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Db 1412 ctctctctctctctctctctctctctctctctctctctctctctctc 1471
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```

OY 389 cagccggttccctccctcgtgctgagtgagtgagtcgattcagggaag 444
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Db 1472 ctctctctctctctctctctctgctctgtagccattgctgattatggtgag 1527
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RESULT 9
US-09-313-932-107
: Sequence 107, Application US/09313932A
: Patent No. 6228642
: GENERAL INFORMATION:
: APPLICANT: Baker, Brenda
: APPLICANT: Bennett, C. Frank
: APPLICANT: Butler, Madeline M.
: APPLICANT: Shanahan, William R.
: TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE MODULATION OF TNF-
: FILE REFERENCE: ISPH-0356
: CURRENT APPLICATION NUMBER: US/09/313,932A
: CURRENT FILING DATE: 1999-05-18
: NUMBER OF SEQ ID NOS: 501
: SEQ ID NO 107
: LENGTH: 7208
: TYPE: DNA
: ORGANISM: Mus musculus
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (4527..4712,5225..5279,5457..5504,5799..6217)
: FEATURE:
: NAME/KEY: exon
: LOCATION: (4371)..(4712)
: FEATURE:
: NAME/KEY: intron
: LOCATION: (4713)..(5224)
: FEATURE:
: NAME/KEY: exon
: LOCATION: (5225)..(5279)
: FEATURE:
: NAME/KEY: intron
: LOCATION: (5280)..(5456)
: FEATURE:
: NAME/KEY: exon
: LOCATION: (5457)..(5504)
: FEATURE:
: NAME/KEY: intron
: LOCATION: (5505)..(5798)
: FEATURE:
: NAME/KEY: exon
: LOCATION: (5799)..(>6972)
: PUBLICATION INFORMATION:
: AUTHORS: Semon, D.
: AUTHORS: Kawashima, E.
: AUTHORS: Jongeneel, C.V.
: AUTHORS: Shakhov, A.N.
```



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REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 41472
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-977-9550
TELEFAX: 212-664-0525
TELEX: 422523 COOP UI
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2830 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: N
ANTI-SENSE: N
FEATURE:
NAME/KEY: CDS
LOCATION: 443..1882
OTHER INFORMATION:
FEATURE:
NAME/KEY: misc_feature
LOCATION: 925..1255
OTHER INFORMATION: /note= "nucleotide sequence encoding DNA
OTHER INFORMATION: binding domain homology"
FEATURE:
NAME/KEY: misc_signal
LOCATION: 1883..1885
OTHER INFORMATION: /note= "translation termination codon"
;S-07-882-792-1

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	Query Match	2.0%;	Score 53;	DB 1;	Length 2830;	
	Best Local Similarity	65.8%;	Pred. No.	0.0003;		
	Matches	77;	Conservative	0;	Mismatches	40; Indels 0; Gaps 0;
OY	284	cacaaagaggagcaagaatgagtcttcacctgcgtgcattccttgctctctctctc	343			
Db	145	CACCCGAGGCACGAGTTCCTTTGCCCTCCTCAACTTCTCTCTCTCTCTCTCTC	204			
OY	344	tctctctctctctctctctctctctctctctctctcctaagcttgaagccgtttcc	400			
Db	205	TCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCAATTGTATGAGGGTGTTGCG	261			

1
 2
 3
 4
 5
 6
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1  ATTORNEY/AGENT INFORMATION:
2  NAME: White, John P.
3  REGISTRATION NUMBER: 28,678
4  REFERENCE/DOCKET INFORMATION: 41472-A-PCT-US
5  TELECOMMUNICATION INFORMATION:
6  TELEPHONE: 212-278-0400
7  TELEFAX: 212-391-0525
8  INFORMATION FOR SEQ ID NO: 1:
9  SEQUENCE CHARACTERISTICS:
10     LENGTH: 2830 base pairs
11     TYPE: nucleic acid
12     STRANDEDNESS: single
13     TOPOLOGY: linear
14     MOLECULE TYPE: cDNA
15     HYPOTHEetical: N
16     ANTI-SENSE: N
17     FEATURE:
18     NAME/KEY: CDS
19     LOCATION: 443..1882
20     OTHER INFORMATION:
21     FEATURE:
22     NAME/KEY: misc.feature
23     LOCATION: 926..1285
24     OTHER INFORMATION: /note="nucleotide sequence
25     OTHER INFORMATION: encoding DNA binding domain
26     OTHER INFORMATION: homology"
27     -FEATURE:
28     NAME/KEY: misc.signal
29     LOCATION: 1883..1885
30     OTHER INFORMATION: /note="translation termination
31     OTHER INFORMATION: codon"
32  US-08-331-644-1

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[illegible]

RESULT 15
PCT-US93-04102-1
Sequence 1, Application PC/TUS9304102
GENERAL INFORMATION:
APPLICANT: Tao, Wufan
APPLICANT: Lai, Eseng
TITLE OF INVENTION: BRAIN TRANSCRIPTION FACTOR, NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING SAME AND USES THEREOF
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: John P. White
STREET: C/O Cooper and Dunham, 30 Rockefeller Plaza
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10112
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/04102
FILING DATE: 19930430
CLASSIFICATION:
PRIOR APPLICATION DATA:

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1      APPLICATION NUMBER:  US 07/882,292
2      FILING DATE: 13-MAY-1992
3      ATTORNEY/AGENT INFORMATION:
4      NAME:  white, John P.
5      REGISTRATION NUMBER:  28,678
6      REFERENCE/DOCKET NUMBER:  41472a-PCT
7      TELECOMMUNICATION INFORMATION:
8      TELEPHONE:  212-977-9550
9      TELEFAX:  212-664-0525
10     TELEX:  422523 COOP UI
11     INFORMATION FOR SEQ ID NO: 1:
12     SEQUENCE CHARACTERISTICS:
13     LENGTH: 2850 base pairs
14     TYPE:  NUCLEIC ACID
15     STRANDEDNESS:  single
16     TOPOLOGY:  linear
17     MOLECULE TYPE:  CDNA
18     HYPOTHETICAL:  N
19     ANTI-SENSE:  N
20     FEATURE:
21     NAME/KEY:  CDS
22     LOCATION:  443..1882
23     OTHER INFORMATION:
24     FEATURE:
25     NAME/KEY:  misc.feature
26     LOCATION:  926..1235
27     OTHER INFORMATION:  /note= "nucleotide sequence encoding DNA
28     OTHER INFORMATION:  binding domain homology"
29     FEATURE:
30     NAME/KEY:  misc.signal
31     LOCATION:  1883..1885
32     OTHER INFORMATION:  /note= "translation termination codon"
33
34 PCT-US93-04102-1

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	Query Match	2.0%	Score 53	DB 5	Length 2830	
	Best Local Similarity	65.8%	Pred. No. 0.0003			
	Matches 77	Conservative 0	Mismatches 40	Indels 0	Gaps 0	
Qy	284	cacaagaagcgagcagcagtgctctccctgtgtcgcacatctctgtgctctctctctc	343			
Db	145	CACCCGGGCGCAGGGTTCCTTCCTCTACCTTCCTCTCTCTCTCTCTCTCTCTC	204			
Qy	344	tctctctctctctgctctctctctctctctctctctctctctcagcctcttcac	400			
Db	205	TC	261			

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Search completed: March 18, 2002, 21:18:44
Job time: 3876 sec
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GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: March 18, 2002, 21:01:04 ; Search time 177.86 Seconds
(without alignments)
410.019 Million cell updates/sec

Title: US-09-867-034-2

Perfect score: 322

Sequence: 1 gacacgacaacaccccttga.....ctctcaagttgcgaagact 322

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 351203 seqs, 113238999 residues

Total number of hits satisfying chosen parameters: 702406

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2-6/ptodata/2/ina/5A.COMB.seq:*
2: /cgn2-6/ptodata/2/ina/5B.COMB.seq:*
3: /cgn2-6/ptodata/2/ina/6A.COMB.seq:*
4: /cgn2-6/ptodata/2/ina/6B.COMB.seq:*
5: /cgn2-6/ptodata/2/ina/PCTUS.COMB.seq:*
6: /cgn2-6/ptodata/2/ina/Backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	321	99.7	875	US-08-916-576B-1	Sequence 1, Appl
2	275	85.4	386	US-08-916-576B-35	Sequence 35, Appl
3	263.4	81.8	401	US-09-221-298-32	Sequence 32, Appl
4	246.8	76.6	793	US-09-040-984-78	Sequence 78, Appl
5	205.8	63.9	506	US-08-916-576B-10	Sequence 10, Appl
6	157.2	48.8	732	US-08-916-576B-5	Sequence 5, Appl
7	93.4	29.0	489	US-08-916-576B-9	Sequence 9, Appl
8	59	18.3	329	US-08-916-576B-11	Sequence 11, Appl
9	59	18.3	329	US-08-916-576B-12	Sequence 12, Appl
10	59	18.3	329	US-08-916-576B-13	Sequence 13, Appl
11	59	18.3	329	US-08-916-576B-14	Sequence 14, Appl
12	57.8	18.0	330	US-08-916-576B-15	Sequence 15, Appl
13	45.8	14.2	1423	US-08-916-576B-3	Sequence 3, Appl
14	43	13.4	311	US-08-916-576B-40	Sequence 40, Appl
15	41.2	12.8	373	US-08-916-576B-36	Sequence 36, Appl
16	31	9.6	5253	US-08-714-918-19	Sequence 19, Appl
17	31	9.6	5253	US-09-265-315-19	Sequence 19, Appl
18	31	9.6	5253	US-09-265-315-19	Sequence 19, Appl
19	31	9.6	5253	US-09-266-417-19	Sequence 19, Appl
20	28.4	9.1	307	US-08-905-223-117	Sequence 117, App
21	29.4	9.1	5596	US-09-078-294-5	Sequence 5, Appl
22	29.4	9.1	80246	US-09-078-294-4	Sequence 4, Appl
23	29.4	9.1	80595	US-09-078-294-3	Sequence 3, Appl
24	29.2	9.1	2437	US-08-794-216-2	Sequence 2, Appl
25	29	9.0	2743	US-09-171-878-2	Sequence 2, Appl
26	28.6	8.9	302	US-08-916-576B-19	Sequence 19, Appl
27	28.4	8.8	1921	US-08-682-767-21	Sequence 21, Appl

28	28.4	8.8	2126	US-08-545-745-1	Sequence 1, Appl
29	28.4	8.8	2974	US-08-433-522A-7	Sequence 7, Appl
30	28.4	8.8	2974	US-09-135-166-7	Sequence 7, Appl
31	28.4	8.8	2974	US-08-942-046-7	Sequence 7, Appl
32	28.2	8.8	470	US-08-687-080-78	Sequence 78, Appl
33	28.2	8.8	1128	US-08-446-875-7	Sequence 7, Appl
34	28.2	8.8	1128	US-08-102-385G-7	Sequence 7, Appl
35	28.2	8.8	5011	US-08-141-893-1	Sequence 1, Appl
36	28.2	8.8	5011	US-08-463-092B-1	Sequence 1, Appl
37	28.2	8.8	5011	US-08-463-092B-3	Sequence 3, Appl
38	28.2	8.8	5011	US-08-462-109A-1	Sequence 1, Appl
39	28.2	8.8	5011	US-08-462-109A-3	Sequence 3, Appl
40	28.2	8.8	5011	US-08-460-907B-1	Sequence 1, Appl
41	28.2	8.8	5011	US-08-460-907B-3	Sequence 3, Appl
42	28.2	8.8	5011	US-08-463-179A-1	Sequence 1, Appl
43	28.2	8.8	5011	US-08-463-179A-3	Sequence 3, Appl
44	28.2	8.8	5011	US-08-461-384B-1	Sequence 1, Appl
45	28.2	8.8	5011	US-08-461-384B-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-08-916-576B-1
Sequence 1, Application US/08916576B
Patent No. 6171816
GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
APPLICANT: DILLON, PATRICK J.
APPLICANT: EBNER, REINHARD
APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESS: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/916,576B
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/024,347
FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0500001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 875 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 71..595
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 131..595

FEATURE: sig-peptide
NAME/KEY: 71.130
LOCATION: 71.130
US-08-916-576B-1

Query Match 99.7%; Score 321; DB 4; Length 875;
Best Local Similarity 99.7%; Pred. No. 3e-95;
Matches 321; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 gacagcaacaaacccctgatgatattcattcacttgatgaagggccacagtcacgc 60
|||||
DB 268 GACAGCAACAAACCCCTGATGATATTATTCATCTGGATAGTCCACACAGTCAAGC 327
QY 61 tttaagaaagtglttgctgaataaagaacccagaatctggcagagcagttgtcct 120
|||||
DB 328 TTTAAGAAAGTGTGTGTAATAAAGAAATCCAGAAATTGGCAGAGCAGTTGTCT 387
QY 121 cctcaatcgtgttatgaacaaactgacaaacaccccttcctgatgagcagatgtccc 180
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DB 388 CCTCAATCTGTTTATGAACAACTGACAAACACCTTCTCTGATGAGCCAGTATGTCCC 447
QY 181 cagattatgtgttgaccatctcgacaggttagagccgatatcactggaagatattc 240
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DB 448 CAGATTATGTTTGTGACCCATCTGACAGTTAGACCCGATATCACTGGAAAGATATTC 507
QY 241 aaancgtctctatgcttaacgaacctgacagatagcctcgtgtgcttgacaacatgaaga 300
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DB 508 AAATCGTCTGTATGCTTACGAACTGCGAGATACAGCTCTGTGCTTGACAAATGAGAA 567
QY 301 agctctcaagtcgtgaagact 322
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DB 568 AGCTCTCAAGTTGCTGAAGACT 589

RESULT 2

US-08-916-576B-35
Sequence 35, Application US/08916576B
Patent No. 6171816
GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
APPLICANT: DILLON, PATRICK J.
APPLICANT: EBNER, REINHARD
APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/916,576B
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/024,347
FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488, 0500001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 35:

SEQUENCE CHARACTERISTICS:
LENGTH: 386 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-916-576B-35

Query Match 85.4%; Score 275; DB 4; Length 386;
Best Local Similarity 99.6%; Pred. No. 2e-80;
Matches 275; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 gacagcaacaaacccctgatgatattcattcacttgatgaagggccacacagtcacgc 60
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QY 61 tttaagaaagtglttgctgaataaagaacccagaatctggcagagcagttgtcct 120
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DB 171 TTTAAGAAAGTGTGTGTAATAAAGAAATCCAGAAATTGGCAGAGCAGTTGTCT 230
QY 121 cctcaatcgtgttatgaacaaactgacaaacaccccttcctgatgagcagatgtccc 180
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DB 231 CCTCAATCTGTTTATGAACAACTGACAAACACCTTCTCTGATGAGCCAGTATGTCCC 290
QY 181 cagattatgtgttgaccatctcgacaggttagagccgatatcactggaagatattc 240
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DB 291 CAGATTATGTTTGTGACCCATCTGACAGTTAGACCCGATATCACTGGAAAGATATTC 350
QY 241 aaancgtctctatgcttaacgaacctgacagatagc 276
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DB 351 AAATCGTCTGTATGCTTACGAACTGCGAGATACAGC 386

RESULT 3

US-09-221-298-32
Sequence 32, Application US/09221298
Patent No. 6284241
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY AND DIAGNOSIS
FILE REFERENCE: 210121.471
CURRENT APPLICATION NUMBER: US/09/221,298
CURRENT FILING DATE: 1998-12-23
NUMBER OF SEQ ID NOS: 112
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 32
LENGTH: 401
TYPE: DNA
ORGANISM: Human
US-09-221-298-32

Query Match 81.8%; Score 263.4; DB 4; Length 401;
Best Local Similarity 98.9%; Pred. No. 1.2e-76;
Matches 275; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 1 gacagcaacaaacccctgatgatattcattcacttgatgaagggccacacagtcacgc 60
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DB 124 gacagcaacaaacccctgatgatattcattcacttgatgaagggccacacagtcacgc 183
QY 61 tttaagaaagtglttgctgaataaagaacccagaatctggcagagcagttgtcct 120
|||||
DB 184 tttaagaaagtglttgctgaataaagaacccagaatctggcagagcagttgtcct 243
QY 121 cctcaatcgtgttatgaacaaactgacaaacaccccttcctgatgagcagatgtccc 180
|||||
DB 244 cctcaatcgtgttatgaacaaactgacaaacaccccttcctgatgagcagatgtccc 303
QY 181 cagattatgtgttgaccatctcgacaggttagagc-cagatattcaggaagatatt 239
|||||
DB 304 cagattatgtgttgaccatctcgacaggttagagccagatattcaggaagatatt 363

Db 369 GTNCCCNNAATTTGGGTTTGGAACAACCTTTTGTGTGNCNA 428
Qy 174 atgtcccgagattatgttgcaccatctgacagttagagccgatactacg 231
Db 429 TTTTCCCCCGGTTTTTTTTTTTGGCCCTTTTNNANNTTANGGGGGTTTTCATGG 486

RESULT 8

US-08-916-576B-11
Sequence 11, Application US/08916576B
Patent No. 6171816
GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
APPLICANT: DILLON, PATRICK J.
APPLICANT: EBNER, REINHARD
APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/916,576B
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/024,347
FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0500001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ. ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 329 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-916-576B-11

Query Match 18.3%; Score 59; DB 4; Length 329;
Best Local Similarity 84.8%; Pred. No. 4e-10;
Matches 112; Conservative 0; Mismatches 13; Indels 7; Gaps 4;

Qy 191 ttgttgaccatctgacagttagagccgatactacgagataattcaanctctc 250
Db 2 TTGCGAGAGCCATCTGTGACAGTTAGAGCCGATATCACTGAGAGATATTC-AATCGTCTC 60
Qy 251 tatgtctaacacctgcagatagagctgtgtgtgacacatgaaagagctctcaag 310
Db 61 TATGCTTACG-ACCTGAGATACAG-----TCTGTTNTTNCACATGAGAAG-TCTCAAG 114
Qy 311 ttgtctgaagact 322
Db 115 TTGCTGAAGACT 126

RESULT 9
US-08-916-576B-12

Sequence 12, Application US/08916576B
Patent No. 6171816
GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
APPLICANT: DILLON, PATRICK J.
APPLICANT: EBNER, REINHARD
APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/916,576B
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/024,347
FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0500001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ. ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 329 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-916-576B-12

Query Match 18.3%; Score 59; DB 4; Length 329;
Best Local Similarity 84.8%; Pred. No. 4e-10;
Matches 112; Conservative 0; Mismatches 13; Indels 7; Gaps 4;

Qy 191 ttgttgaccatctgacagttagagccgatactacgagataattcaanctctc 250
Db 2 TTGCGAGAGCCATCTGTGACAGTTAGAGCCGATATCACTGAGAGATATTC-AATCGTCTC 60
Qy 251 tatgtctaacacctgcagatagagctgtgtgtgacacatgaaagagctctcaag 310
Db 61 TATGCTTACG-ACCTGAGATACAG-----TCTGTTNTTNCACATGAGAAG-TCTCAAG 114
Qy 311 ttgtctgaagact 322
Db 115 TTGCTGAAGACT 126

RESULT 10
US-08-916-576B-13
Sequence 13, Application US/08916576B
Patent No. 6171816
GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
APPLICANT: DILLON, PATRICK J.
APPLICANT: EBNER, REINHARD
APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45

```

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/916,576B
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/024,347
FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: STEEFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0500001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 329 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-916-576B-14

Query Match      18.3%; Score 59; DB 4; Length 329;
Best Local Similarity 84.8%; Pred. No. 4e-10;
Matches 112; Conservative 0; Mismatches 13; Indels 7; Gaps 4.

QY   191 ttgttgcccatctcctacagttgaggccgatcacctcgagaatattcaanngtctc 250
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Db    2 tTCCGAGACCACTCTGTACACTTAGAGCCGATTCACCTGGAGAATATTC -AATGCTCTC 60

QY   251 tatgttcgaacctgcgatatacaagctctgttgccttgacaacatatgaagaagctctcaag 310
     |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db    61 TATGCTTACG-ACCIGCAGATACAG-----TCTGTTNTTNCACATGATGAAGAAG-TCTCAAG 114
           |||||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

QY   311 ttgtctgaagact 322
     |||||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db    115 TTGCTGAAGACT 126

RESULT 12
US-08-916-576B-15
Sequence 15, Application US/08916576B
Patent No. 6171816
GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
APPLICANT: DILON, PATRICK J.
APPLICANT: EBNER, REINHARD
APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/916,576B
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/024,347

```



```
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/024,347
FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0500001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 311 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-916-576B-40
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Query Match 13.4% Score 43; DB 4; Length 311;
Best Local Similarity 66.9%; Pred. No. 6.3e-05;
Matches 103; Conservative 0; Mismatches 48; Indels 3; Gaps 3;
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QY 168 gccagatgctccagagattgttggcccatctctgacagttgagccgatatca 227
    |||||||  |||||||  |||||||  |||||||  |||||||  |||||||  ||
DB 308 GGCATATATGCTCCCTAGATGTTGTAGACC-TCCTTAACAGTAGAGCTGACATAG 250

QY 228 ctggaagatctcaaanegctctctctagcaaccgcagatcagctctgtgtctg 287
    ||||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 249 CTGG-AGATNCTGTACAGATTGTTCACATATGAGACCTCGGATTGCC-CTATTGATAG 192

QY 288 acaacatgaagaagctctcaagtgctgaagac 321
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DB 191 AAAACATGAGAAGAAGCATTAAGACTTATTCACTC 158
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RESULT 15
US-08-916-576B-36
; Sequence 36, Application US/08916576B
; Patent No. 6171816
; GENERAL INFORMATION:
; APPLICANT: YU, GUO-LIANG
; APPLICANT: DILON, PATRICK J.
; APPLICANT: EBNER, REINHARD
; APPLICANT: ENDRESS, GREGORY A.
; TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 NEW YORK AVENUE, SUITE 600
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: US
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/916,576B
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/024,347
; FILING DATE: 23-AUG-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: STEFFE, ERIC K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0500001
; TELECOMMUNICATION INFORMATION:
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TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGTH: 373 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-916-576B-36
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Query Match 12.8% Score 41.2; DB 4; Length 373;
Best Local Similarity 91.5%; Pred. No. 0.00026;
Matches 54; Conservative 0; Mismatches 4; Indels 1; Gaps 1;
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QY 6 gaacaaccccttgatgatctatctacactt-ggatgagtgccacacagtcagctt 63
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DB 252 GCACAAACCTTGATGATTCATCATCTTGGAATGAGTCCACACAGTTCANGTTT 310
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Search completed: March 18, 2002, 21:01:05
Job time: 2817 sec
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GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 18, 2002, 21:01:05 ; Search time 177.86 seconds
(without alignments)
5817.935 Million cell updates/sec

Title: US-09-867-034-3

Perfect score: 4569

Sequence: 1 atgataaattcctcaaac.....tgcagctgcatagctag

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 351203 seqs, 11323899 residues

Total number of hits satisfying chosen parameters: 702406

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*

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- 2: /cgn2.6/ptodata/2/ina/5B.COMB.seq:*
- 3: /cgn2.6/ptodata/2/ina/6A.COMB.seq:*
- 4: /cgn2.6/ptodata/2/ina/6B.COMB.seq:*
- 5: /cgn2.6/ptodata/2/ina/PC10S.COMB.seq:*
- 6: /cgn2.6/ptodata/2/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	970.2	21.2	40328	3	US-08-742-185-102
C 2	957.4	21.0	18596	4	US-09-318-448-11
C 3	762.8	16.7	878	1	US-08-469-667-8
C 4	762.8	16.7	878	5	PCR-US95-07289-8
C 5	649.6	14.2	10607	1	US-08-078-090-3
C 6	514.6	11.3	29604	3	US-08-781-891-207
C 7	479.6	10.5	176373	3	US-09-128-155-17
C 8	478	10.5	152331	3	US-09-128-155-16
C 9	450.6	9.9	1512	2	US-08-909-965C-8
C 10	363.4	8.0	80246	4	US-09-078-294-3
C 11	361.8	7.9	80595	4	US-09-078-294-3
C 12	277.6	6.1	461	4	US-08-991-789A-274
C 13	273.2	6.0	3562	4	US-09-360-197-1
C 14	273.2	6.0	3647	4	US-09-360-197-7
C 15	247.2	5.4	401	4	US-09-221-298-34
C 16	235	5.1	10754	2	US-08-966-958-1
C 17	235	5.1	10754	2	US-09-215-817-1
C 18	235	5.1	10754	4	US-09-342-353-1
C 19	228.2	5.0	576	4	US-09-385-982-23
C 20	221.4	4.8	595	4	US-09-385-982-25
C 21	213.6	4.7	483	4	US-08-592-126-118
C 22	200.8	4.4	618	4	US-09-385-982-24
C 23	194.4	4.3	43795	3	US-08-742-185-101
C 24	183.4	4.0	611	4	US-09-385-982-27
C 25	178.6	3.9	6763	2	US-08-756-506-23
C 26	178.6	3.9	10807	1	US-08-206-176-7
C 27	178.6	3.9	10807	2	US-08-756-506-5

28	168.6	3.7	742	4	US-09-385-982-33	Sequence 33, Appl
29	144.2	3.2	1326	3	US-09-100-391-1	Sequence 1, Appl
C 30	137.4	3.0	152331	3	US-09-128-155-16	Sequence 16, Appl
C 31	137.2	3.0	573	4	US-09-385-982-420	Sequence 420, Appl
C 32	135.4	3.0	176373	3	US-09-128-155-17	Sequence 17, Appl
C 33	128.8	2.8	1062	2	US-08-611-757-33	Sequence 33, Appl
C 34	128.8	2.8	1062	5	PCR-US95-05980-33	Sequence 33, Appl
C 35	123.2	2.7	8355	4	US-08-406-030A-23	Sequence 23, Appl
C 36	121.8	2.7	2720	4	US-09-050-159-131	Sequence 131, Appl
C 37	120.4	2.6	49136	4	US-09-422-868-1	Sequence 1, Appl
C 38	102.6	2.2	300	4	US-08-991-789A-64	Sequence 64, Appl
C 39	93.2	2.0	2167	3	US-08-884-324-7	Sequence 7, Appl
C 40	93.2	2.0	28994	3	US-08-884-324-14	Sequence 14, Appl
C 41	85.4	1.9	72928	3	US-09-009-913-1	Sequence 1, Appl
C 42	83.2	1.8	1851	4	US-08-991-789A-291	Sequence 291, Appl
C 43	79.4	1.7	90050	4	US-09-245-041-5	Sequence 5, Appl
C 44	71.2	1.6	852	4	US-09-461-697-1	Sequence 1, Appl
C 45	70	1.5	90050	4	US-09-245-041-5	Sequence 5, Appl

ALIGNMENTS

RESULT 1
US-08-742-185-102/c
Sequence 102, Application US/08742185
Patent No. 6020476
GENERAL INFORMATION:
APPLICANT: Page, David C.
APPLICANT: Reijo, Renee
APPLICANT: Saxena, Richa
APPLICANT: Hawkins, Trevor
APPLICANT: Reeve, Mary Pat
TITLE OF INVENTION: DAX: A GENE FAMILY ASSOCIATED WITH ACOOSPERMIA
NUMBER OF SEQUENCES: 102
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Millitia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: US
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/742,185
FILING DATE: 30-OCT-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/690,734
FILING DATE: 31-JUL-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/310,429
FILING DATE: 22-SEP-1994
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: WH194-07A2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 102:
SEQUENCE CHARACTERISTICS:
LENGTH: 40328 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-742-185-102

Query Match 21.2%; Score 970.2; DB 3; Length 40328;
Best Local Similarity 90.5%; Pred. No. 2.6e-276;
Matches 1069; Conservative 0; Mismatches 58; Indels 54; Gaps 1;

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QY 1 atgataaattcctcaacacatacactctcccaagactaaacccaaggaagtgaatct 60
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Db 19112 ATGATAAATCCTTCGACATACACTCTCCCAAGACTAAACGAGGAAGTTAACT 19053

QY 61 ctgataaaccataaagagctctgatatgtggaataatcaagaagcttcccaacaa 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 19052 CTGATAAACCATAAAGAGCTGTAATTTGGCAATTAATCAATAGCTCACCAACCAA 18993

QY 121 aagagtcaggagaccagatgatactcaagctgaatctcaccagaggtacaagaaggaactg 180
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Db 18992 AAGAGTCCAGAGCAGATGATTCACAGCCGATTCACAGAGGTACAGAGGAGAACTG 18933

QY 181 gtaccattcccttgaaagtattacaatagaagaggaactccctcctaactcg 240
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Db 18932 GTACCATTCTTGTGAACCTATTCGAATCAACAGAAAAGACGAATCTCCCTAACTCA 18873

QY 241 ttctatgagccacaatcctcctgataccaaaagccggcagagacacaacaaaagag 300
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Db 18872 TTTTATGAGCCAGCATATTTCTGATACCAAGCCAGGAGACACAAACCAAGAG 18813

QY 301 aatttgaaccaatattcttgatgaacattgacgaataatcccaataaatactggca 360
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Db 18812 AATTTAGACCAATATCTCTGATGAAACATGTGCAAAAATCTCTCAATATAAATACTGCA 18753

QY 361 aacggaatccagcagacatacaaaaagcttatccacagatgaagtggtccctc 420
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 18752 AACGAATCCAGCGGACATCAAAAAGCTTATCCACATGATCAAGTGGCTTCATCGCT 18693

QY 421 ggaat-----a 426
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Db 18692 GGGATGCAAGCGTGTTCATATACGCAATCAATTAATGTAATCCACATATAACGA 18633

QY 427 accaagaacaaaaccacatgatatctcaatagatgcagaaaagcccttgacaaaat 486
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 18632 ACCAAGACAAAACACATGATATTCGAATGATGCAAAAAGCCCTTGACAAAATTT 18573

QY 487 caaaccctctcattgctaaataaaccctcaataatgaatattgtaggaacatattcga 546
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 18572 CAACAACCCCTTCATGCTTAAACCTCTCATTAATTAATTAATTAATTAATTAATTA 18513

QY 547 ataaataagatctatctatgcagaagccacacaaatcatalactgaatgggcaaaactg 606
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 18512 ATAGTAAGAGCTATCTATGACAAACCCACAGCAATATCATATGTAATGGGCAAAACTG 18453

QY 607 gaagcattcccttgaaactgcaagaagagatgcccctctctcaacatccatctc 666
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Db 18452 GAACCATCTCCCTTGAANAACGTGCAAGAGAGGATCCCTCTCTCAACCTCTATTC 18393

QY 667 aacatagtttggaagtcttgccagggcaattggcaggggaaggaataaagggtttc 726
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 18392 AACATAGTTGTGGAAGTTCTGGCCAGGGCAATTAAGCAGGAAGAAATAAGGGTATT 18333

QY 727 caattagaaaaggaagtaaatgtccctgtttgcaggtgacatgatactgataccta 786
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 18332 CAATTAGGAAGAGGAAGTAAATGTCCCTGTTTGCAGCAACATATATATATATCTA 18273

QY 787 gaaaccccatctctcagcccaaaatctccttaagtgtataagcaactcagcaagctc 846
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 18272 GAAACCCCATTTGCTCAGCCCAAAATCTCTTAAGCTGATAGCAACTCTCAGCAAACTC 18213

QY 847 tcaagatacaaaatcaatgtcaaaaatcaagaacatccctatacaacaataacagagaa 906
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 18212 TCAGGATTAACAATAATGTAACAAAATCACAACTTTCTTATACCAACAGAGACAA 18153

QY 907 acagagagccaaatcatgaatgaactcccatcacaattgtctcaagaagataaataac 966
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 18152 ACAGAGAGCCCAATCATGAGTGAACCTCCCATTCACAAATTGCTTCAAAAGGAATAAATGC 18093
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QY 967 ctgaagatcccaactacataaggaatgtgaaggacctcttcaaggagaactacaacacctg 1026
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 18092 CTAGGAATTAACATTAAGAAGATGTGAAGGACCTCTTCAAGAGAACTACAAACCACTG 18033

QY 1027 ctcaatgaataataaagagatacaaaaatggaagaacatccatgctcatgataagga 1086
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Db 18032 CTCAGGAATAATTAAGAAGATTAACAACAATGGAAGAACAATTCATGCTCATGATGAGA 17973

QY 1087 agaatacatctgtgaatgtgccaactgccaagaatatt 1127
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 17972 AGAATCAATATCTGTAATAATGCGCATACTGCCCAAGTAAT 17932
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```
RESULT 2
US-09-318-448-11/c
: Sequence 11, Application US/09318448
: Patent No. 6210950
: GENERAL INFORMATION:
: APPLICANT: Johnson, William G.
: APPLICANT: Stenroos, Edward S.
: TITLE OF INVENTION: METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
: FILE REFERENCE: 601-1-057
: CURRENT APPLICATION NUMBER: US/09/318.448
: NUMBER OF FILING DATE: 1999-05-25
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 11
: LENGTH: 16596
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-318-448-11
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Query Match 21.0%; Score 957.4; DB 4; Length 16596;
Best Local Similarity 90.9%; Pred. No. 9.7e-273;
Matches 1074; Conservative 0; Mismatches 51; Indels 56; Gaps 3;

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Db 8513 ATGATAAATCCTTCGACATACACTCTCCCAAGACTAAACGAGGAAGTTAACTCT 8454

QY 61 ctgaatagaaccaataaagagctctgatatgtggaataatcaagaagcttacaacaaa 120
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Db 8453 CTGAATTAACCAATTAACAGGAGCTGAATTTGTGCAATTAATCAATAGCTTACCAACCAA 8394

QY 121 aagagtcaggagaccagatgatactcaagctgaatctcaccagaggtacaagaaggaactg 180
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Db 8393 GAGAGTCCAGGACAGATGATTCACAGCCGAATTTCT-CCAGAGGTACAAAGAGGAACTG 8335

QY 181 gtaccattccctctgaaagtattcaacaaatagaagaaaggaactccctcctaactcg 240
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Db 8334 GTACCATTCTTCTGAAACTATTCGAATTAAGAAAAGAGGGAATCTCTCTTAACCTCA 8275

QY 241 ttctatgagccacaatcctcctgataccaaaagccggcagagacaacaaaagag 300
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Db 8274 TTTTATGAAGCCCAATCATCTGATACCAAGCTGGGCAAGACAC-ACCAAAAAAGAG 8216

QY 301 aatttgaaccaatattcttgatgaacattgacgaataatcccaataaataactgtgca 360
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Db 8215 AATTTTGAACCAATATCTCTGATGAACCTTGAATGCAAAAATCTCTCAATTAATAATCTGCA 8156

QY 361 aacggaatccagcagacatacaaaaagcttatacccaatgaatgagtggtccatccct 420
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 8155 AACGAATCCAGAGCAGCATCAAAAAGCTTATCCACCATGATCATGTGGCTTCACTCCT 8096

QY 421 ggaat-----a 426
    |||||

Db 8095 AGGATGCAAGCGTGTTCATATACGCAATCAATTAATGTAATCCACATATAAACGA 8036

QY 427 accaagaacaaaaccacatgatatctcaatagatgcagaaaagcccttgacaaaatc 486
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 8035 TCCAAAAGCAAAAACACATGATTAATTCATATAGATGCGAGAAAAGCCTTTGACAAAATTT 7976
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Qy	487	caaacacccttcctgctcaaaaacccccaataatgatgatgagggacatctcaaa	546
Db	7975	CAACACACATCATGCTGCTAAAAACTCTCAATTAATTGGATTGATGACATATTTC	7916
Qy	547	ataataagagctactctatgycnaaagccacagcccaatcatcatctgaatggycaaaactg	606
Db	7915	ATATAAGACCTGTCTATGACAAAGCCACAGCCAAATATCATGTAGTAAATGGCCAAAAC	7856
Qy	607	gaagcatccctcttggaaactgycacaagagggatgcccctctcaccaactctatc	666
Db	7855	GAACATATTCCTTTGAAAACCTGGCACAAACAGAGGGATGCGCTCTCTCACACTCTATT	7796
Qy	667	aacaatcttcctggaagtcctgycgcacaggaatlagcaagagaaagaaataaaggtttc	726
Db	7795	AACATATGTTGGAGAGTCTGGCCAGGCGCATTTAGCCAGAGAAAGAAATAAAGGTTT	7736
Qy	727	caatlagaaagaggaagtcacaattgtccctgttctgcagtgacatgatgtatcccta	786
Db	7735	CAATTAGCAAAAGAGAAAGTCAAAATTGTCCCTGTTGCGAGACATCATATTTATATCTA	7676
Qy	787	gaaaccccactctctcgaagcccaaatctccctaagctgatatagaacttgaagcaagtc	846
Db	7675	GAAAACCCCATGTGCTCAGCCCAAAATCTCTTAAGCTGATATAGACCTTCAGCAAAATC	7616
Qy	847	tcaagatcacaaatcgaatgtacaaaataatcacagaatccctctatcaccaataacagaa	906
Db	7615	TCAGAGATATAAATCAATCTGCGAAAAATCACAAAGCATTTCTTTATACCAATATACGACAA	7556
Qy	907	acagagagcccaatcatgatgaatgaactcccatccatccaaatgtcttcaagagaaataaac	966
Db	7555	ACAAAGAGCCAAATCAATGAGTGAATCCACCTCACAAATGTCTTCAAGAGAAATTAATAATC	7496
Qy	967	ctagaatcccaacttcaagaaggtgtgaagagacctcttaagaaagaaactacaacacctg	1026
Db	7495	CTAGAGATCCACCTTTAAAGAGGATGTGAAGACCTCTTCAAGAGAACTACCAAAACCTG	7436
Qy	1027	ctcaatgaataaagagaggtacaaaacaaatggaagaacatccatctgctcatgtagta	1086
Db	7435	CTCAATGAATTAATAAGAGGATACAAAGAAATGGAACCATTCATGCTCATGCGTATAG	7376
Qy	1087	agaatcaatctggtgaaatgycatctatgcccagaattat	1127
Db	7375	AGAATCAATATCGTGAAAAGGCGCATACGTGCCCAAGTAAAT	7335

RESULT 3

US-08-469-667-8

Sequence 8, Application US/08469667

Patent No. 5733748

GENERAL INFORMATION:

APPLICANT: Yu, Guo-Liang

APPLICANT: Rosen, Craig

TITLE OF INVENTION: Colon Specific Genes and Proteins

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESS:

ADDRESSEE: Carella, Byrne, Bain, Gillfillan, Cecchi,

ADDRESSEE: Stewart & Olstein

STREET: 6 Becker Farm Road

CITY: Roseland

STATE: NJ

COUNTRY: USA

ZIP: 07068-1739

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/469,667

FILING DATE: 06-JUN-1995

CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

Query Match	Best Local Similarity	Score	DB 1	Length	DB 2	Length
Matches 775; Conservative 0; Mismatches 3; Indels 1; Gaps 1	99.5%;	762.8;		878;		
3792	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
1	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
3852	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
61	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
3912	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
121	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
3972	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
161	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
4032	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
241	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
4092	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
301	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
4152	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
361	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
4212	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
421	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
4272	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
461	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
4332	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
541	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
4392	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
601	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
4452	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
661	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;
4511	1	16.7%;	99.5%;	762.8;	DB 1;	Length 878;

Db 721 TTCACATTTTAAATAATGATGTGAGAGTGGGATGAGAACTGCATGTGTCAATAGNCTAG 779

RESULT 4
PCT-US95-07289-8
Sequence 8, Application PC/TUS9507289
GENERAL INFORMATION:
APPLICANT: Yu, Guo-Liang
APPLICANT: Rosen, Craig
TITLE OF INVENTION: COLON Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Carella, Byrne, Bain, Gillfillan, Cecchi,
ADDRESSEE: Stewart & Olstein
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07289
FILING DATE: 06-JUN-1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-265
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..685
PCT-US95-07289-8

Query Match 16.7%; Score 762.8; DB 5; Length 878;
Best Local Similarity 99.5%; Pred. No. 6.2e-216;
Matches 775; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY 3792 tcttactcaagtgatctcacactatgacagaatgtagatagaatgtaaaagtgcg 3851
|||||
Db 1 TGTCTACTCAGAGTATTTACACACTTATGACACGATGTGATACATGTGTAAGTGGC 60
|||||

QY 3852 ggcctctggagaggttaacgacgacgagagagtgatgataccccaagagtgagacac 3911
|||||
Db 61 GGCCTGTGGAGAGCTTAAACGACGACGACGAGAGATGATACCCACAGAGTGGAGCACT 120
|||||

QY 3912 gtacataccctgctgagatgtgagaaatgatacaatgataccccaacacacgaat 3971
|||||
Db 121 GTACATACCTGGCTGGATGTGAGATGAGATGAATACAAATGGAATCCACCAAGACCTGAAT 180
|||||

QY 3972 taataagagatgattcaacaacaagaagtgatttcagacagaacatcctcggagagctc 4031
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Db 181 TAATAAGAGATGATGTTCAACACCAAGAGTGTGTTTCAGCAGAACATCTCTGGAGAGCTTC 240
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QY 4032 atttgagcttcgagatgtaacaaatgctccatacactgatactctccacacctggcacaat 4091
|||||
Db 241 ATTGTGCTGCTGATGTCACCAATGCTCCCATACCTGATCTTCCCACTGGCAAT 300
|||||

QY 4092 caccgacctgaaggcgaaatltcacggggagcagctcactaactgacttgagacagctcc 4151
|||||

Db 301 CACCGACCTGAAGCGGAAATTCACGGGGGAGCTCATTAATCTGACTTGACAGCTCC 360
|||||

QY 4152 tgggagatattatgaccatgtaaacagctcacaagaatgctatctgataaagtaagat 4211
|||||

Db 361 TGGGATATTATGACCACTGAGACAGCTCACAAAGTATATCATTCGAATAGTACAAAT 420
|||||

QY 4212 tcttgatctcagagacaagttcaatgaaatctctcctcaagtgataactgctcctcc 4271
|||||

Db 421 TCTTATCTCAGAGACAGAGTTCATGATGATCTTCAAGTGAATACTGCTGCTCATGCC 480
|||||

QY 4272 aaaggaagccaactctgaggaagctcttctgtaaacagaaacatctcttgaaaa 4331
|||||

Db 481 AAGGAGACCAACTCTGAGGAAGCTCTTTTGTAAACAGAAACATTAATCTTTGAAAA 540
|||||

QY 4332 tggcagacatcttctcatctgctatcagaagctggtgataagtgatcgaatacgaat 4391
|||||

Db 541 TGGCAGACATCTTTTCATTTGCTATTTCAGGCTGTGATAGTCAATCGAATCAGAAAT 600
|||||

QY 4392 atccaacatgcaagagatcttgttatactcctccacagactccgccaagacactag 4451
|||||

Db 601 ATCCAACTTCACGAGATATCTTTGTTATTCCTCCACAGACTCCGACAGACACTAG 660
|||||

QY 4452 tcttgatgaacgctgctctcttcttgccttaatatcatataaagacacactctctgca 4510
|||||

Db 661 TCTGATGAAGCTGCTGCTCTGCTTAATTCATATCAACAGACACTCTCTGCA 720
|||||

QY 4511 ttcaacttlaaaaattgtggaagtgtgataagagagactgcaagctgctcagctag 4569
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Db 721 TTCACATTTTAAATAATGATGTGAGAGTGGGATGAGAACTGCATGTGTCAATAGNCTAG 779
|||||

RESULT 5
US-08-078-090-3/c
Sequence 3, Application US/08078090
Patent No. 5739407
GENERAL INFORMATION:
APPLICANT: BERGSTROM, SVEN
APPLICANT: HERNELL, OLE
APPLICANT: LOENNERDAL, BO
APPLICANT: HJALMARSSON, KARIN
APPLICANT: HANSSON, LENNART
APPLICANT: TOERNELL, JAN
APPLICANT: STROEMDUST, MATS
TITLE OF INVENTION: HUMAN BETA-CASEIN PROCESS FOR PRODUCING
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESSES:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 SEVENTH STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/078,090
FILING DATE: 19930618
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: WO PCT/DK92/00236
APPLICATION NUMBER: WO PCT/DK92/00236
FILING DATE: 19-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/DK91/00233
FILING DATE: 19-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: COOPER, IVER P.
REGISTRATION NUMBER: 28,005
REFERENCE/DOCKET NUMBER: BERGSTROM2

```

? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (202)628-5197
? TELEFAX: (202)737-3528
? TELE: 248633
? INFORMATION FOR SEQ ID NO: 3:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 10607 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: DNA (genomic)
? FEATURE:
? NAME/KEY: CDS
? LOCATION: join(4804..4854, 5720..5746, 6726..6746, 6845
? LOCATION: ..6886, 7991..8521, 9440..9445)
US-08-078-090-3

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Db 22885 AACGGAATCCAGAACACATTAAAGCAATCCATCCTGACCAAGTAGTTTATTCCCA 22826
QY 421 ggaat-----a 426
Db 22825 GGGATGAGGGATGTTTAATATACGAAATCCATCAATGTAATCCATTATATACAA 22766
QY 427 accaaagacaaaacacatgatattatcattagatgcagaagagcccttgacaaatt 486
Db 22765 CTCNAAAGACAAAACACATGATCATCTCGTTAGATGCAGAAAAGCATTTGACACAGATC 22706
QY 487 caacaacccttcgtcctaaacccctcaatcaatagattatgtgtgactatctcaaa 546
Db 22705 CAACACCCATTATGATGTAAGAGTTGTAAGATTCAGAGCCCTTACCTTTTC 22646
QY 547 atataagagctatcctatgtgcaagcaagccacatcattacacgtatggcacaacatg 606
Db 22645 ATGATTAAGCAATCTACAGCAAAACAGTAGCCAAACATCAAGTAATGAGAAAGCTG 22586
QY 607 gaagcattcccttgaaactgtgcacaagacagaggtgcctctcacaacatccattc 666
Db 22585 GAAGCAATCCCACTAAATATCGAGACTAGACAGCTGCGCCACTTTCCTTACCTTTTC 22526
QY 667 aacatagtttggagttctgtgcccaggcaattagcgaggaaggaataaagggttt 726
Db 22525 AACGTAGTACTTGAGATATTAGCCAGAGCAATTCGACAGAAAAGAGATTAAGGGCTA 22466
QY 727 caattagaaaagagaagatcaaatgtccctgttgcaggtgacatgattgtataccta 786
Db 22465 CAATTTGAAAAGAGAAAGTCAAAATATCACTTTTGACATGATGATGATGATGATGATG 22406
QY 787 gaaaccccatctctcagcccaaaatctccttaagctgtataagcaacttcagcaagtc 846
Db 22405 AGTGACCTTAAATTTTACCCAGAGAACTCCTTAACTGATAAACCTTGCGTGAAGTA 22346
QY 847 tcaagatacaaaatcaatgtatacaaaaatcacaagcattccatcacccaataacagaa 906
Db 22345 GCTGGATATTAATAAATCAACAGTCAATGCGCTTTCTCTTACAAAGATTAACAG 22286
QY 907 acagagagccaatcaltgaatgaatcccatcacaatgtgtcctcaagagaataaatac 966
Db 22285 GCTGAGAAAGAAATTTAGGAAACAAACCTTTCATATAGTCACAAATTAATTAATAT 22226
QY 967 ctggaatccaacttaacagagatgtgaagacctctcagaggaactaataaccactg 1026
Db 22225 CTTGGCTGACTCTTAAGTAAGAGTGAAGAGTGTGATGTAATAAATCTTCAATCTCTG 22166
QY 1027 ctcaatgaataaaagagatatacaacaacatggaagaacattccatgctcatgataga 1086
Db 22165 AAGAAATAAATTAAGGAAGATCTCAGAAAGATGGAAGATCTCCCATGCTCATGATGGC 22106
QY 1087 agaatacatatcgtgaaaatggtccatactgcccacaa 1121
Db 22105 AGGATTAACATTTGTAATAAATGCGTATCTTGCCAAA 22071

RESULT 7
US-09-128-155-17
; Sequence 17, Application US/09128155
; Patent No. 6117654
; GENERAL INFORMATION:
; APPLICANT: Pan, Yang
; TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 RELATED PROTEIN FAMILY
; FILE REFERENCE: 09404/052001
; CURRENT APPLICATION NUMBER: US/09/128,155
; EARLIER FILING DATE: 1998-08-03
; EARLIER APPLICATION NUMBER: US 60/091,650
; EARLIER FILING DATE: 1998-07-02
; EARLIER APPLICATION NUMBER: US 60/054,646
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 17
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; LENGTH: 176373
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)-(176373)
; OTHER INFORMATION: n = A,T,C or G
US-09-128-155-17

Query Match 10.5%; Score 479.6; DB 3; Length 176373;
Best Local Similarity 89.1%; Pred. NO. 1.4e-130;
Matches 529; Conservative 0; Mismatches 64; Indels 1; Gaps 1;

QY 547 atataagagctatcctatgtgcaagcaagccacatcattacattggtggcaaaactg 606
Db 41578 atgtcacaagctattatgtgaaaacccacagccatattcatcagatggcagaactg 41637
QY 607 gaagcattcccttgaaactgtgcacaagacagaggtgcctctcacaacatccattc 666
Db 41638 gaaacattcccttgaaactgtgcacaagacagaggtgcctctcacaacatccattc 41697
QY 667 aacatagtttggagttctgtgcccaggcaattagcgaggaaggaataaagggttt 726
Db 41698 aacatagatcggagttctgtgcccaggcaattagcgaggaaggaataaagggtatt 41757
QY 727 caattagaaaagagaagatcaaatgtccctgttgcaggtgacatgattgtataccta 786
Db 41758 caattagaaaagagaagatcaaatgtccctgttgcaggtgacatgattgtataccta 41816
QY 787 gaaaccccatctctcagcccaaaatctccttaagctgtataagcaacttcagcaagtc 846
Db 41817 gaaaccccatctctcagcccaaaatctccttaagctgtataagcaacttcagcaagtc 41876
QY 847 tcaagatacaaaatcaatgtatacaaaaatcacaagcattccatcacccaataacagaa 906
Db 41877 tcaagatacaaaatcaatgtatacaaaaatcacaagcattccatcacccaataacagaa 41936
QY 907 acagagagccaatcaltgaatgaatcccatcacaatgtgtcctcaagagaataaatac 966
Db 41937 acagagagccaatcaltgaatgaatcccatcacaatgtgtcctcaagagaataaatac 41996
QY 967 ctggaatccaacttaacagagatgtgaagacctctcagaggaactaataaccactg 1026
Db 41997 ctggaatccaacttaacagagatgtgaagacctctcagaggaactaataaccactg 42056
QY 1027 ctcaatgaataaaagagatatacaacaacatggaagaacattccatgctcatgataga 1086
Db 42057 ctcaaggaataaagagaggaacaaacaacatggaataaacaattcctatgtatgataga 42116
QY 1087 agaatacatatcgtgaaaatggtccatactgcccagaattatgtcatatataaag 1140
Db 42117 agaatacatatcgtgaaaatggtccatactgcccagaattatgtcatatataaag 42170

RESULT 8
US-09-128-155-16
; Sequence 16, Application US/09128155
; Patent No. 6117654
; GENERAL INFORMATION:
; APPLICANT: Pan, Yang
; TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 RELATED PROTEIN FAMILY
; FILE REFERENCE: 09404/052001
; CURRENT APPLICATION NUMBER: US/09/128,155
; EARLIER FILING DATE: 1998-08-03
; EARLIER APPLICATION NUMBER: US 60/091,650
; EARLIER FILING DATE: 1998-07-02
; EARLIER APPLICATION NUMBER: US 60/054,646
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
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RESULT 9
 US-08-909-965C-8
 : Sequence 8, Application US/08909965C
 : Patent No. 5936078
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: Kuga Tetsuo
 : APPLICANT: Nakagawa Satoshi
 : APPLICANT: Sakaki Yoshiyuki
 : APPLICANT: Zhao Nanding
 : APPLICANT: Hashida Hideji
 : TITLE OF INVENTION: NOVEL DNA, NOVEL POLYPEPTIDE
 : TITLE OF INVENTION: AND NOVEL ANTIBODY
 : NUMBER OF SEQUENCES: 17
 :
 : CORRESPONDENCE ADDRESS:
 : ADDRESS: FITZPATRICK, CELLA, HARPER AND SCINTO
 : STREET: 217 Park Avenue
 : CITY: New York
 : STATE: New York
 :

Query Match	9.9%	Score 450.6	DB 2:	Length 1512:
Best Local Similarity	68.2%	Pred. No. 2.7e-123:		
Matches	819:	Conservative	0:	Mismatches 284: Indels 98: Gaps 10:

QY	1	atggaataatcctcctaacaacatacaactctcccaagaactaacaacgaagaagtgaatct	60
Db	173	ATTATTAATTCCTGTGGAANAACATACCAACCCTCCCACTTGATATCAGATATAACACGAAT	232
QY	61	ctgaatagaaccaataacagagctctgatatcttggcaataat---caagagcttacaacc	117
Db	233	CTGAACAGACCCAAACAACAAGCAGTGAGATGATATTAATTTAAACAAGTTGTCTCTCT	292
QY	118	aaaaagagtccagaagccagatgattcacagcttgtaattctaccagaagtacagaaggaa	177
Db	293	AAAAAAGCCCAAGGCGCATACAAATTCACAGCCAATTTCTACACAGCATTTCA---AAGAA	349
QY	178	cttgtagccattccctctgaaagtattacaatcaatagaaaaagagagcaattcctcctaac	237
Db	350	TTGGGCGCAATTTTCTGTGAACCTATTTCTTMAAGACTGAGAAAGAAAGCAATCTTCTTAAC	409
QY	238	tcgttttlttagcgacaacatca tccgttataccaaaagccgggcagagajaca-----	288
Db	410	TCATCTCTATGAAGCCAGTATCTACCTTTGATACCAAAAGCCGGAAGAAGGCTATACAAAAA	469
QY	289	-----accaaaaaagagaattttagaccaatattctttagatgaacattgatgc	335
Db	470	ACAAACAAAAAACAACAAAAACACAAACAGACAGACCAATATTCCTGATTAATACATTAGATCA	529
QY	336	aaaaatcctcaataaatacttggcaaacccgaattcagcagacatcctcaaaagcttatca	395

Db	530	AGAAATCTTCAACAAAAATCTAGCAAACTTAACCCAAAGACACATCAAAAAGTAATTAA	589
Qy	396	ccatgatcaagtgaggcttccatccctggag-----	425
Db	590	CTATGATTAAGTGGTATTTATCTCCAGGAGTGCAGGAGTGTTCACATATGCAAGTCAAT	649
Qy	426	-----aaoccaaagacaaacoccalpatatctcaataga	461
Db	650	AAATGTGATTCACCATGTAAACAGAAATTAAACAAACAAACCATATGATTTATCTCAATAGA	709
Qy	462	tgcaagaagaagccctttacacaaaatctcaacacaccttcacatgcataaaacctcaataat	521
Db	710	TGCAAAAA--GCATGTGATTAATTAATTAACAGCATCTCTTTAT-----AAACCTCAACAAAT	763
Qy	522	agatatgtatggagacatactccaataataaagaagctactctatgycanaagccacagcca	581
Db	764	AGATATATGAAGGAACATATCTCAAAATTAATTAAGTCTACATATGAGAAA--CCACAGCCAA	822
Qy	582	tatactactgaatggagcaaaaactctggaagat--ccctcttgaanaactgtgcacaagaag	640
Db	823	CATATATACAGAAATAGGAAGATGTCAAAGCATTTCCCCCTTAAGAACGTGAATTAAGACAG	882
Qy	641	gatgcctctctccaccctctctatccaacatgttttggaaatctctgcagcaagaatla	700
Db	883	GATGCCACATTTTACCACTCTTATTCATATTAATTAATGGAAGTCATAGCCAGGCCAATCA	942
Qy	701	ggcagsgaagaataaagggttccaattaggaagaagaagtcacaaatgtgccgtg	760
Db	943	GTCAAGA---GAAGGAAGAAATTCCTCAAAATCAGAAAAGAGAGTCAACATATTTATAT	998
Qy	761	ttgcaagtgatcatgatgtatatactatgaaaaccccatctctcagcccaaatcttcccta	820
Db	999	TTGGCGACGATATGATGATTTGTATTAACCTAGAAAACCTTAAGATCCCTTCCAAAAGACATCTAG	1058
Qy	821	agctgaatgaagaactctcagaagaactctcagatatacaaaatcgaatgcataaatacaga	880
Db	1059	ATTTGACAAATGATTTAGTAAGATCTCAGGTTTACAAAATCCATGTACCAAAATAGTAG	1118
Qy	881	cattcctatacaccaataacagaagaacagagagccaaaatcgaatgactcccatca	940
Db	1119	CTCTGCTGCATGCCAACACAGACCAAGCTGAGAAATCAATTAAMAAAACCTAGCCTTATA	1178
Qy	941	caatgtcttcaagaagataaataactctggaatccaacttacaaggaatgtggaagacc	1000
Db	1179	TAAATAGCTGAAA-----AAAAAAAACCTAGATTAACATTTAATCTGGGAGGTGAAGAGC	1234
Qy	1001	tcttcaaggaagaactataaacacactgtctcaatgaataaataaagagatatcaaaacaatga	1060
Db	1235	TCTTCAAGGAGGACTACAAAACCCACCTGAAGAAGATCCACAGTGTATCAAAACAAATGGA	1294
Qy	1061	agaacattcatgtctcatgagatagaagaatcaatctcgtgaaaatatgycatactgcaca	1120
Db	1295	AATACGTGTCATGCTCATGTGATGGAAGATCAGTATCACACAAATGATCATATTGCTCA	1354
Qy	1121	a 1121	
Db	1355	A 1355	
RESULT 10			
US-09-078-294-4/C			
Sequence 4, Application US/09078294			
Patent No. 6265211			
GENERAL INFORMATION:			
APPLICANT: Choo, Kong-Hong Andy			
APPLICANT: Du Sart, Desiree			
APPLICANT: Cancilla, Michael R.			
TITLE OF INVENTION: A NOVEL NOCLEIC ACID MOLECULE			
FILE REFERENCE: Davies Col			
CURRENT APPLICATION NUMBER: US/09/078,294			
CURRENT FILING DATE: 1998-05-13			
NUMBER OF SEQ ID NOS: 29			
SOFTWARE: PatentIn Ver. 2.0			

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; SEQ ID NO 4
;
; LENGTH: 80246
; TYPE: DNA
; ORGANISM: Nucleotide sequence of NC-contig
US-09-078.294-4
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Query Match	8.0%;	Score 363.4;	DB 4;	Length 80246;
Best Local Similarity	70.5%;	Pred. No. 2.3e-96;		
Matches 580;	Conservative	0;	Mismatches 191;	Indels 52;
				Gaps 5;

OY	346	aaataaatactctggcaaacccgaaatccagcagcacaatcaaaaagcttataccacatgataca	405
Db	50429	AAAAAAAAATTGCAACAACCAATTCACGACGACATCAAAAAAGTTAA - CACCATGATTAA	50372
OY	406	gtggcctcatccctcgggat-----aaccaagaacaaaccacatgat	449
Db	50371	GTAGGTTTAAATCCCTGGGATGGGAAGTTGGCTCAACATTCACAAATTCATAAATGCAATT	50312
OY	450	tatcccaatagatgtgagaaagagcctttgacaanaattcaagacccttcagtctaaanc	509
Db	50311	CACCAAAATTAAGCCCAAGAAAAAGCTTTCAATATAATCCAAACATTCCTTCATATATAAAGGC	50253
OY	510	ccccaataatagataattgtatgaggagacatatccaaaataaagaagcatalatgycaa	569
Db	50251	CTTTGACAAACATAGGCATCAAAAGAAATACACCTCAAAATAATTAAGGCCATCTGTGACAA	50192
OY	570	agccaagccaatatcatcactgtaattggygcaaaaactgtgaagcattccctcttgaaaactyg	629
Db	50191	ACCCATGTGGCACAACATCAATTAATTAAGGGGMAAAAGGTGGAAACCATATTCCTTGAAGGTGG	50132
OY	630	caccaagaacaggaatgcccctctccacactccattcaacaatgatttggaaagtlctgyc	689
Db	50131	AACAAGACACAGATCTCACTTCAGACACTCTTATTCACGTATGATCTGGA-----	50079
OY	690	caggccaatctagcgcaggaaggaacaaaggglltccaattgaggaagaaagaggaagtcac	749
Db	50080	-AGACATATCAGACACAAGGGAAGAATAAAGCATTCATAATTAAGMAAAGAAAGAAAGTCAA	50022
OY	750	attgtccctglttgcagtgtaacatgtaattgataactcctagaagaaaccccatctctcagccca	809
Db	50021	ACTATCTTCTTCTTGGTAATGATATATCTTAATCTAGAAAACTACAGACTTTTG-CCA	49963
OY	810	aaatcccttaagcctgataagcaacttcagcaagcttcaggaatccaggaatacaaatcaatgta	869
Db	49962	AAGGCTCTAGACACTGATTAATGACTTTCAGTAAGGTTTCAGGATACAGAAATAGTGTTACA	49903
OY	870	aaatcacaaagcatctcctatacacaataacagagaaacagagaagcgaatcaatgaatga	929
Db	49902	AAACTCTGTAGCATTTCTATATACCACAATTAACCTTAAGAGCTGAGAGCCACATGAAGAAATGC	49843
OY	930	actcccatctcaaatatgtcttcaagaagataaanaataactcaggaatcccaacttaacaagga	989
Db	49842	AATCCCATTTTAAATAATAGTCATCAATAAAAAATGAATTAATCTTAGG-----	49799
OY	990	tgtgaagagacccttcaagaggaaactacaacaccctgtcccaatgaataaagagatcac	1049
Db	49800	-----AGGATCTCTTACAAAGAAAACTTAAAAAAACATTTCCTTAAGGAATTAAGTAGAGCAC	49746
OY	1050	aaacaaatggaagaaacatccatgtctcatbygaatgaagaatcaatlatcgtgaatgyc	1109
Db	49745	AAACAAATGGAATAATATTTCATGCTCATGATAGGAAGAAATCAATATTCATTAATAATAGC	49686
OY	1110	catactgcccaagatataatgctagataataaaggatattcaatca	1152
Db	49685	ATACGTGCCCAAGCAATCATATAGATTCAATGCTATATTCCTATATA	49643

RESULT 11
US-09-078-294-3/c
; Sequence 3, Application US/09078294
; Patent No. 6265211
; GENERAL INFORMATION:


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Db 307 AATAGAGCTATTATGACAAACCCACAGCCAAATATCATGTAATGGGCAAGACTGGA 366
Oy 609 agacttcccttgaagaactgacaaagagatgccccttcacacactcatttcaa 668
Db 367 AGCATTCCTTTGAAATGAGCACAAGAGATGCCCTCTCTACCGCTCTATTGAA 426
Oy 669 catagtttgaagttctgccaaggaatagg 702
Db 427 CATAGTATTGGAAGTTCTGGCCAGGCAATCAAG 460

RESULT 13
US-09-360-197-1/c
: Sequence 1, Application US/09360197
: Patent No. 6287859
: GENERAL INFORMATION:
: APPLICANT: Bassiliana, Frederic
: APPLICANT: Lazdunski, Michel
: APPLICANT: Waldmann, Rainer
: APPLICANT: Deweille, Jan R.
: TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
: FILE REFERENCE: 989, 6706P
: CURRENT APPLICATION NUMBER: US/09/360,197
: PRIOR FILING DATE: 1997-07-23
: PRIOR APPLICATION NUMBER: 09/129,758
: PRIOR FILING DATE: 1998-08-05
: PRIOR APPLICATION NUMBER: 60/095,408
: PRIOR FILING DATE: 1998-08-05
: NUMBER OF SEQ ID NOS: 22
: SOFTWARE: Patentln Ver. 2.1
: SEQ ID NO 1
: LENGTH: 3562
: TYPE: DNA
: ORGANISM: rattus sp.
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (123)..(1700)
US-09-360-197-1

Query Match 6.0%; Score 273.2; DB 4; Length 3562;
Best Local Similarity 65.5%; Pred. No. 1.7e-70;
Matches 449; Conservative 0; Mismatches 228; Indels 9; Gaps 3;

Oy 442 cacatgattatcctaataagatgacagaagaagccttgcacaatatcacaaccccttcag 501
Db 2757 CACATGATCATCTCATTAAGATGCTGAGAAAGCATTTGGCAATTTTCAAAACCCCTTCATG 2698
Oy 502 ctaaaaaccctcaataaattagatatgattgagacatatctcaaatataaagaagctatc 561
Db 2697 TTAAAGCTCTTGGAATATATCGAATATCAAGGCCCATCTACATAGTAAAGCCATA 2638
Oy 562 tatgcaagaagcacaagccaatatatctgaatgagcaaaaactggaagccttccttgg 621
Db 2637 TACAGCAAAACAGTAGGCAATATCAAACTAAATGAGAGAAATTTGAAGCCATCCACGA 2578
Oy 622 aaacttgcacaagcagagatgcccctctcacacactccattccaatagatttggaa 681
Db 2577 AAACAGGAACTAGACAAAGGCTGCCACTCTCTCCCTATCTATTCAATATATGAATTTGAA 2518
Oy 682 gtctgagccagggaatagcagagagaagaaataaagggttccaatlagagaagaag 741
Db 2517 GTCTAGACAGAGAAATTAGACACAAAAGTCCCCAGAGGATGAGAAATTGGAAAGGAA 2458
Oy 742 gaatcaaatgtccctgttgcaggtgacatgattgtatccttagaagaaccatctc 801
Db 2457 GAAATGAAA-TATCACTATTGTCAGATGATTAATAGTATTCTTAACGTGACCCCAAAAGT 2399
Oy 802 tcagcccaaaatctcttaagcgtatgaagcaactcagcaagctcagagatacaaatc 861
Db 2398 TCACACGAGAGAACCTTAACCTTATTAAGAACTTTAGCAAGACGCTGGGTATTAATTT 2339
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Oy 862 aatgtacaaaatcacaaagcatctctatcaccaataacagagaagaagacaaatc 921
Db 2338 AACCCAAACAAATACAGAAAGCTTCTCTACTACCAAGATAGTAGTGCGTGAAGAAAGAAAT 2279
Oy 922 atgaatgaactccatcacaaatgtcttcaagaagaataaataacttaggaatccact 981
Db 2278 AGGGAAATGACACCATCTCACAAATAGTCACAAACAAATATAAATACCTGTGTGCTCTA 2219
Oy 982 acaaggagatgtgaaggcccttcaaggagacacaaaccactgcccataatgaataaa 1041
Db 2218 ACCA-----AAAGATTTTATGACAGAACTTCAAGTCTGGAAGAAAGAACTGAA 2166
Oy 1042 gagatatacaaaatgaagaacatccatccatgctcatagataggaagaatcatatcgtg 1101
Db 2165 GTAGAT-TTCAGAGATAGAAAGATCTCCCTTGCTCATGAAATGGCAGATTAACATAGTA 2107
Oy 1102 aaatggccatctgcccagaattat 1127
Db 2106 AAATGGCATCTTACCAAGCAAT 2081

RESULT 14
US-09-360-197-7/c
: Sequence 7, Application US/09360197
: Patent No. 6287859
: GENERAL INFORMATION:
: APPLICANT: Bassiliana, Frederic
: APPLICANT: Lazdunski, Michel
: APPLICANT: Waldmann, Rainer
: APPLICANT: Deweille, Jan R.
: TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
: FILE REFERENCE: 989, 6706P
: CURRENT APPLICATION NUMBER: US/09/360,197
: PRIOR FILING DATE: 1997-07-23
: PRIOR APPLICATION NUMBER: 09/129,758
: PRIOR FILING DATE: 1998-08-05
: PRIOR APPLICATION NUMBER: 60/095,408
: PRIOR FILING DATE: 1998-08-05
: NUMBER OF SEQ ID NOS: 22
: SOFTWARE: Patentln Ver. 2.1
: SEQ ID NO 7
: LENGTH: 3647
: TYPE: DNA
: ORGANISM: rattus sp.
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (109)..(1785)
US-09-360-197-7

Query Match 6.0%; Score 273.2; DB 4; Length 3647;
Best Local Similarity 65.5%; Pred. No. 1.7e-70;
Matches 449; Conservative 0; Mismatches 228; Indels 9; Gaps 3;

Oy 442 cacatgattatcctaataagatgacagaagaagccttgcacaatatcacaaccccttcag 501
Db 2842 CACATGATCATCTCATTAAGATGCTGAGAAAGCATTTGGCAATTTTCAAAACCCCTTCATG 2783
Oy 502 ctaaaaaccctcaataaattagatatgattgagacatatctcaaatataaagaagctatc 561
Db 2782 TTAAAGCTCTTGGAATATATCGAATATCAAGGCCCATCTACATAGTAAAGCCATA 2723
Oy 562 tatgcaagaagcacaagccaatatatctgaatgagcaaaaactggaagccttccttgg 621
Db 2722 TACAGCAAAACAGTAGGCAATATCAAACTAAATGAGAGAAATTTGAAGCCATCCACGA 2663
Oy 622 aaacttgcacaagcagagatgcccctctcacacactccattccaatagatttggaa 681
Db 2662 AAACAGGAACTAGACAAAGGCTGCCACTCTCTCCCTATCTATTCAATATATGAATTTGAA 2603
Oy 682 gtctgagccagggaatagcagagagaagaaataaagggttccaatlagagaagaag 741
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Db 2602 GTCTTAGCCAGAGCATATGACACAAAAGTCCCGACAGGGATAGAAATTGGAAAGGAA 2543
Oy 742 gaagtcacatttccctgttgcaggtgacatgattgtatcactagaataaccctatccc 801
Db 2542 GAAAGTGAAT-TATCACTATTTCAGATGATATATATATTTCTTTCGTGACCCCAAAAGT 2484
Oy 802 tcagcccaaatctctcttaagcttgatlaagcaacttcagaaagcttcagatatacaaatc 861
Db 2483 TCCACCAGAGAACCTTAACCTGATAAAGACTTTAGCAAAAGCAGCTGGTATTAATAAT 2424
Oy 862 aatgtacaaaalacaaagatcttccatatacacaataaagagaagaagagcccaatc 921
Db 2423 AACCCAAACAAATCAGAAAGCTTCCCTCTACTCAAGAGATAGTAGGCTGAGAAAGAAATT 2364
Oy 922 atgaatgaactccatcacaattgtctcaagagataaataacctaggaatccaact 981
Db 2363 AGGGAATGACACCATTTCAACATAGTCACAAACAAATATAAATACCTTGCTGGCTCTTA 2304
Oy 982 acaaggagatgtgaagacctctcaaggagaactacaacacctgtcctaataaataaa 1041
Db 2303 ACCA-----AAAGATTTTATGACAAAGAACTTCAAGTCTCTGAAGAAAGAACTGAA 2251
Oy 1042 gagatatacaacaatgagaacatctccatgtctcagatagagaagaatcaatctgtg 1101
Db 2250 GTAGAT-TTCAGAGATAGAAAGATCTCCCTGCTCATGATGCGCAGATTAACATAGTA 2192
Oy 1102 aaatggccatctgcccagaattat 1127
Db 2191 AAATGGCCATCTTACCAAAAGCAAT 2166
```

```
RESULT 15
US-09-221-298-34
: Sequence 34, Application US/09221298
: Patent No. 6284241
: GENERAL INFORMATION:
: APPLICANT: Xu, Jiangchun
: TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY AND DIAGNOSIS
: TITLE OF INVENTION: OF COLON CANCER
: FILE REFERENCE: 210121.471
: CURRENT APPLICATION NUMBER: US/09/221,298
: CURRENT FILING DATE: 1998-12-23
: NUMBER OF SEQ ID NOS: 112
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 34
: LENGTH: 401
: TYPE: DNA
: ORGANISM: Human
US-09-221-298-34
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Query Match 5.4%; Score 247.2; DB 4; Length 401;
Best Local Similarity 95.7%; Pred. No. 2.1e-63;
Matches 308; Conservative 0; Mismatches 8; Indels 6; Gaps 5;
```

```
Oy 1888 aaggacatgtgtaccacagcatctctgtatctgcttgaagctacacagaagcgattttat 1947
Db 76 aaggacatgtgtaccacagcatctctgtatctgcttgaagctacacagaagcgattttat 135
Oy 1948 tcaaaaatgttgcatttgcatttccctgaacaatggaagcaaaagctgactatgtgaga 2007
Db 136 tcaaaaatgttgcatttgcatttccctgaacaatggaagcaaaagctgactatgtgaga 195
Oy 2008 ccaaaacttgagactacatacaaaaatgtctgaltgtctgttc- tgaatcactcctccag 2066
Db 196 ccaaaacttgagactacatacaaaaatgtctgaltgtctgttc- tgaatcactcctccag 255
Oy 2067 taatgatgaacctacacagacagat-gggcaactgtgagagaagg- tgaagagat 2123
Db 256 taatgatgaacctacacagacagatgaggcaactgtgagagaagg- tgaagagatc 315
Oy 2124 caactcaactcctgattcattctgcaagaaaaaagttagc- tgaatatgagaccacaagtc- 2181
```

```
Db 316 caactcaactcctgattcattctgcaagaaaaaagttagccttgatatagtgaccacaagta 375
Oy 2182 agggcatttgtccatgtatggg 2203
Db 376 agggcatttgtccatgtatggg 397
```

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Search completed: March 18, 2002, 21:15:49
Job time: 3701 sec
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2690 aggagcacctggatccaccttcgttccttagtccctcctccatgcaagaagagc 2745

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Db 139 agagagacactggatccacctc-ttccctangtccctccctccat-caagaaagagc 196
Oy 2750 actctcaagtcacgtccctccgaagactgctcgaggaagtttaaaacaaaat 2809
Db 197 actctctaa-tcattccctccgaagactgctcgaggaagttt-aaaacaaaat 254
Oy 2810 ccaggaatgaagacacttgaagtttgaataatggagacaactgtcttgcaaa 2869
Db 255 ccaggaat-aagagccttaag---tcagttgaatggagacaact-gtctgcaaa 308
Oy 2870 ggggccaagcgagctgtgtcgaaggtcccaagcgtccagcctcggtgtgaag 2929
Db 309 ggggtgc---ganaaggagctgtgtcgaaggtcccaagcgtccagcctcggtgtg-an 364
Oy 2930 gttcctgaggtgtgcattgaggggacctgacct 2961
Db 365 gttcctgaggtgtgcattgaggggacctgacct 396
```

```
RESULT 2
US-09-385-982-132
; Sequence 132, Application US/09385982
; Patent No. 626234
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CCDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; EARLIER FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 132
; LENGTH: 593
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(593)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-132
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Query Match 3.8%; Score 123.2; DB 4; Length 593;
Best Local Similarity 75.6%; Pred. No. 2.0e-26;
Matches 437; Conservative 0; Mismatches 87; Indels 54; Gaps 21;
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Oy 2097 actaagaacatgttaggtgtgttcttaactcttccctggtgaggaacaaac 2156
Db 1 actgagacatgtgta-gggtgtgttcttaactctt-ccgtgtaagggaacaaagac 58
Oy 2157 ccaattccaatctagaagaagcctcccaagcatgtctgtcctcctgggccaacat 2216
Db 59 catctcc-aatctagaagaag-ctcccaagcatgtctgtcctggc---aaacat 111
Oy 2217 gctcttgagttaagtgaactcctccctggagacacacacacacacacacacac 2276
Db 112 tgcctctgagttaag-tgacctaatccctggagacata---cgatcaacgtgtgag 167
Oy 2277 gtccgaaggagatgagaaggataccacacatcttccataggtgtcaacacacacac 2336
Db 168 gtccgaaggag--atgagaaggataccacacacacacacacacacacacacacac 224
Oy 2337 cgtgacaagtcagaatagggagacacgtctctatccctccacacacacacacacac 2396
Db 225 --tgacaagtcagaataggg--acactgtctctatccctccacacacacacacacac 279
```

```
Oy 2397 aaaccccttcttltgaaaaaccagccccaagactgtgcaactagctccaaaccaag 2456
Db 280 accctt-----gacacagccagagctt-gaacctagctcc-accacag 321
Oy 2457 aagacttgaaagagacatacttccaacttcttccagggaggtgtccttgggaatccag 2516
Db 322 aagacttgaaa-gagacatactc-tctcagcttcttccaggaagcgtgcc-tgggaatccag 378
Oy 2517 gaacttctgacttaattgaagccttgagacacataataatgtccatctatggtgttt 2576
Db 379 gaac-ttttgatgtctaatgaagccttgagcctcaaaaatgtcctat-----nggtgac 432
Oy 2577 aactacagtttltgaacatctgtagggagcagaaggggccaagagtaaaaaacatga 2656
Db 433 acttcaagcttlttgaa-atgctagangcagaagggc-----aaaaataaaacatga 486
Oy 2637 cctgtgaaaggaagagagaggaaggaacgtggtgg 2674
Db 487 cctgtgtgaaaggaanaaaagcaagaacttggnggg 524
```

```
RESULT 3
US-09-385-982-153
; Sequence 153, Application US/09385982
; Patent No. 626234
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CCDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; EARLIER FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 153
; LENGTH: 620
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(620)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-153
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Query Match 3.6%; Score 116.8; DB 4; Length 620;
Best Local Similarity 74.5%; Pred. No. 2.2e-24;
Matches 423; Conservative 0; Mismatches 94; Indels 51; Gaps 20;
```

```
Oy 2135 tccctgttagggcaacaagccccattccaatctagaggaagcctcccaacatgtc 2194
Db 6 tacgaggagggcaacaagaac--attccaatctagaggaag-ctcccaacatgtc 62
Oy 2195 ttgtccctgggccaacacatgtctcttgagttaagtgaacttccctccggagagc 2254
Db 63 t----tgctcctgggcaacacatgtctcttgagttaag-tgacctaatctccctggagac 117
Oy 2255 acataccacacacatgtgaggtcagagggagatgagaagaggaataccacacacacac 2314
Db 118 ata---cgatcaacactgtgaggtcagagggat--gagaagagatataccacacacacac 172
Oy 2315 ataggttacaagatcacactcgtgacaagtcagaatlagggagacacacgtctatccc 2374
Db 173 aaggttacaagctcacctc---tgacaagtcagaatlagggaca--ctgctctatccc 227
Oy 2375 tcaatggagagatcttggccaaccccccttcttgaataccagcccccaagact 2434
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Db 228 locaatgga-gagattctgcaaccttg-----aagcccaagactt 270
Qy 2435 gcaacacagctcaaccacaagaagctggaagacatacttctcagttttag 2494
Db 271 -gcaacacagctc-accacaagaagctggaag-gagacatac-tctcagttttag 326
Qy 2495 gagcgctgcttgggaatcccggaacgttttgatgtaataagaagcctgactata 2554
Db 327 gagcgctgcttgggaatcccggaac-ctttgatgtaataagaagcctgactata 384
Qy 2555 taatgctcatatgaggtttaaatacagtttttgacaatgtagagcagaagcg 2614
Db 385 atgtccac-----tatgggttgacacttactagttttgaa-atgtagagagcagaagcg 439
Qy 2615 gccgaaggttaaaaaataacatgctgtagaagaagaggaagcaaaactggtg 2674
Db 440 cagagag- -taaaaaacatgacactgtagaagaagaanaag- -caaggaacactggtg 494
Qy 2675 gagatcaatagagaagagcactg 2702
Db 495 gagatcaatagagaagagcactg 522

RESULT 4

US-09-385-982-124
: Sequence 124, Application US/09385982
: Patent No. 6262334
: GENERAL INFORMATION:
: APPLICANT: ENDEGE, WILSON O., ET AL.
: TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
: FILE REFERENCE: CCDDNA-260XX
: CURRENT APPLICATION NUMBER: US/09/385,982
: EARLIER FILING DATE: 1999-08-30
: EARLIER APPLICATION NUMBER: 09/328,111
: EARLIER FILING DATE: 1999-06-08
: EARLIER APPLICATION NUMBER: 60/117,393
: EARLIER FILING DATE: 1999-01-27
: EARLIER APPLICATION NUMBER: 60/098,639
: EARLIER FILING DATE: 1998-08-31
: NUMBER OF SEQ ID NOS: 544
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 124
: LENGTH: 570
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: (1)...(570)
: OTHER INFORMATION: n = A,T,C or G
US-09-385-982-124

Query Match 3.4%; Score 109.4; DB 4; Length 570;
Best Local Similarity 65.5%; Pred. No. 3e-22;
Matches 377; Conservative 0; Mismatches 157; Indels 42; Gaps 15;

Qy 2097 actgagaaatgcttaggggtgtgttcttaattcttccctgtagggcaagacc 2156
Db 1 actgagaaatggtta-gggtgttcttcttaattctt-ctgtgtagggcaagacc 58
Qy 2157 ccattccaatctagagaagcctcccaagcatctgcttgcctccctgggccaacat 2216
Db 59 catttcc--aatctagagaagaag-ctcccaagcatctgcttgcctgggc-----aaacat 111
Qy 2217 gctcttgatgtaagtgacctaacttcccttgggaagacataccgcatcaactgtgag 2276
Db 112 tgccttgatgtaag-tgacctaacttcccttgggaagacata--cgcatcaactgtgag 167
Qy 2277 gtccgaggggagatgagaagatccacacatcttcataggtgcacaaactaacct 2336
Db 168 gtccgagggg--atgagaagatgataccacacatcttcaaggtgcacaaactaacctc- 224

Qy 2337 cgtgacaagctcagaatagggagacacgtcttctatccctccaatggaagattctggcc 2396
Db 225 -tgacaagctcagaataggg--acactgtcttataccctccaatgga-gagattctgna 279
Qy 2397 aaacccccccttcttgaanaaccagccccagagcttggcaactagcctaaccaga 2456
Db 280 acc-----cttgaacagccagagcttgcacantagcctt--accocaa 321
Qy 2457 aagacttgagaagagacatacttctcagc-ctttcaggaagcgtgcttgggaatca 2515
Db 322 angacttgagaagagacatacttctcagccttcttgaagaagcgttgccttgggaatca 381
Qy 2516 ggaagccttctgatacttaataagaagccttgagcactataatgtccactctatgggtt 2575
Db 382 aggaacttcttgaatcttaataaangcttggacttaaaaatgtccnctngngtgg 441
Qy 2576 taatctac--agtttgaacatgctlagaggagcaagcgggcccagagataaaaaa 2633
Db 442 cactttaaangtttcttgaangcttngagagcaganggggtcnaanaantnaaana 501
Qy 2634 tgacctgtgtagaagaagagagcaaggaactg 2669
Db 502 ntgaactgtataaanggaatantlangcnaatg 537

RESULT 5

US-09-272-032-6
: Sequence 6, Application US/09272032A
: Patent No. 6296852
: GENERAL INFORMATION:
: APPLICANT: Johnson, Michael A.
: APPLICANT: McCoy, Richard J.
: TITLE OF INVENTION: Recombinant Avian Adenovirus Vector
: FILE REFERENCE: 48-95a
: CURRENT APPLICATION NUMBER: US/09/272,032A
: EARLIER FILING DATE: 1999-03-18
: EARLIER APPLICATION NUMBER: US 08/448,617
: EARLIER FILING DATE: 1995-09-08
: EARLIER APPLICATION NUMBER: PCT/AU94/000189
: EARLIER FILING DATE: 1994-04-14
: EARLIER APPLICATION NUMBER: AU PL 8297
: EARLIER FILING DATE: 1993-04-14
: NUMBER OF SEQ ID NOS: 8
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 6
: LENGTH: 8442
: TYPE: DNA
: ORGANISM: fowl adenovirus
US-09-272-032-6

Query Match 1.7%; Score 55; DB 4; Length 8442;
Best Local Similarity 55.5%; Pred. No. 1.2e-05;
Matches 106; Conservative 0; Mismatches 85; Indels 0; Gaps 0;

Qy 336 aaactaatgtccctggaactctgtagcacacagaacaataacacttcttcccaagct 395
Db 6774 aaaccacactaccac 6833
Qy 396 acttaccctgctcccccataatagtagacatgttccctccacacttccactgct 455
Db 6834 acttaccctgctcccccataatagtagacatgttccctccacacttccactgct 6893
Qy 456 cccccaataatagtagacatgttccctccacacttccactgctgtagagact 515
Db 6894 acttccacactacacacacacacacacacacacacacacttccactgctgtagagact 6953
Qy 516 gagtaaccac 526
Db 6954 cccactacagac 6964

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RESULT 6
US-08-700-651-1
; Sequence 1, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEBCH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAs AND RNAs
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1
; LENGTH: 5163.
; TYPE: DNA
; ORGANISM: Cryptosporidium parvum
US-08-700-651-1
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Query Match 1.7%; Score 53; DB 3; Length 5163;
Best Local Similarity 53.4%; Pred. No. 3.5e-05;
Matches 133; Conservative 0; Mismatches 115; Indels 1; Gaps 1;

QY 280 aaaaacacagaacgagcagctagtggtcctacagtagtcgagcgatccactgaac 339
    ||||| ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 580 aaaaacacagaacgagcagctagtggtcctacagtagtcgagcgatccactgaac 639
    ||||| ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 340 taattgcccctgaacactgctagcaccagcaataacacctcttcccaacagctact 399
    || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 640 -aacactactaactactactactactactactactactactactactactactactact 698
    || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 400 caccctgctcccccataatagtagacatagttcctcccaatctcctacacctgctccc 459
    || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 699 caacacacacacacacacacacacacacacacacacacacacacacacacacacac 758
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 460 ccaatagtagtacatagttcctcccaatctcctactactactactgctgcagagtagt 519
    || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 759 ctactactactactactactactactactactactactactactactactactactact 818
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 520 caaccacaa 528
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 819 ctacaacca 827
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RESULT 7
US-08-928-361B-4
; Sequence 4, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: PETERS, VERNY, JONES & BIRKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
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SOFTWARE: Patentln Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, HANA
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5163 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-928-361B-4
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Query Match 1.7%; Score 53; DB 3; Length 5163;
Best Local Similarity 53.4%; Pred. No. 3.5e-05;
Matches 133; Conservative 0; Mismatches 115; Indels 1; Gaps 1;

QY 280 aaaaacacagaacgagcagctagtggtcctacagtagtcgagcgatccactgaac 339
    ||||| ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 579 AAAAAACACACAACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACT 638
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 340 taattgcccctgaacactgctagcaccagcaataacacctcttcccaacagctact 399
    || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 639 -AACAACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACT 697
    || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 400 caccctgctcccccataatagtagacatagttcctcccaatctcctacacctgctccc 459
    || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 698 CAACAAACAAACAAACAAACAAACAAACAAACAAACAAACAAACAAACAAACAAAC 757
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 460 ccaatagtagtacatagttcctcccaatctcctactactactactgctgcagagtagt 519
    || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 758 CTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACT 817
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 520 caaccacaa 528
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 818 CTACAACCA 826
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RESULT 8
US-08-700-651-2
; Sequence 2, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEBCH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAs AND RNAs
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2
; LENGTH: 5318
; TYPE: DNA
; ORGANISM: Cryptosporidium parvum
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